

# Signature Page

**Signed By**

MICHAEL HIXON

**Organization**

OG AND E

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**Confirmation Number**

S20220325135245-F1211-R2021

## 2021 Emissions Inventory Report

OG AND E (330)

### Emissions Summary for SOONER GENERATING STATION (1211)

#### CRITERIA AIR POLLUTANT (CAP) EMISSIONS TOTALS

Pollutant Code/CAS #	Pollutant Name	Total Emissions (tons)*
CO	Carbon Monoxide	1,470.873
NOX	Nitrogen Oxides (NOx) expressed as NO2	2,198.867
PM10-PRI	PM10 - Primary (Filterable + Condensable)	561.969
PM25-PRI	PM2.5 - Primary (Filterable + Condensable)	470.486
SO2	Sulfur Oxides (SOx) expressed as SO2	572.219
VOC	Volatile Organic Compounds (VOCs)	57.321

#### HAZARDOUS AIR POLLUTANT (HAP) and/or OTHER POLLUTANT EMISSIONS TOTALS

Pollutant Code/CAS #	Pollutant Name	Is VOC/PM?	Total Emissions (tons)*
7439921	Lead (CAP-HAP)	PM	0.013
121142	2,4-Dinitrotoluene (HAP)	VOC	0.045
75070	Acetaldehyde (HAP-TOX)	VOC	0.05
98862	Acetophenone (HAP)	VOC	0.033
107028	Acrolein (HAP)	VOC	0.058
107131	Acrylonitrile (HAP-TOX)	VOC	0.184
7440360	Antimony (HAP)	PM	0.005
7440382	Arsenic (HAP-TOX)	PM	0.007
71432	Benzene (including benzene from gasoline) (HAP-TOX)	VOC	0.033
92875	Benzidine (HAP)	VOC	0.047
100447	Benzyl chloride (HAP)	VOC	0.032
7440417	Beryllium (HAP-TOX)	PM	0.001
92524	Biphenyl (HAP)	VOC	0.002
117817	Bis(2-ethylhexyl)phthalate (DEHP) (HAP)	VOC	0.047
7440439	Cadmium (HAP-TOX)	PM	0.002
75150	Carbon disulfide (HAP)	VOC	0.028
56235	Carbon tetrachloride (HAP-TOX)	VOC	0.003
108907	Chlorobenzene (HAP)	VOC	0.002
67663	Chloroform (HAP-TOX)	VOC	0.003

Pollutant Code/CAS #	Pollutant Name	Is VOC/PM?	Total Emissions (tons)*
7440473	Chromium (HAP-TOX)	PM	0.026
7440484	Cobalt (HAP)	PM	0.007
98828	Cumene (HAP)	VOC	0.002
132649	Dibenzofuran (HAP)	VOC	0.047
84742	Dibutylphthalate (HAP)	VOC	0.012
131113	Dimethyl phthalate (HAP)	VOC	0.015
100414	Ethyl benzene (HAP-TOX)	VOC	0.002
106934	Ethylene dibromide (Dibromoethane) (HAP)	VOC	0.008
107062	Ethylene dichloride (1,2-Dichloroethane) (HAP-TOX)	VOC	0.006
50000	Formaldehyde (HAP-TOX)	VOC	0.116
110543	Hexane (HAP)	VOC	0.037
7647010	Hydrochloric acid (HAP)	PM	0.98
7664393	Hydrogen fluoride (Hydrofluoric acid) (HAP)	PM	3.835
7439965	Manganese (HAP-TOX)	PM	0.037
7439976	Mercury (HAP-TOX)	PM	0.015
71556	Methyl chloroform (1,1,1-Trichloroethane) (HAP)	-	0.004
74884	Methyl iodide (Iodomethane) (HAP)	VOC	0.007
108101	Methyl isobutyl ketone (Hexone) (HAP)	VOC	0.149
75092	Methylene chloride (Dichloromethane) (HAP-TOX)	-	0.317
91203	Naphthalene (HAP)	VOC	0.005
7440020	Nickel (HAP-TOX)	PM	0.029
95476	o-Xylene (HAP)	VOC	0.003
108952	Phenol (HAP)	VOC	0.032
123386	Propionaldehyde (HAP)	VOC	0.083
100425	Styrene (HAP)	VOC	0.002
7664939	Sulfuric acid (including acid mist expressed as H2SO4) (OTH)	PM	0.058
127184	Tetrachloroethylene (Perchloroethylene) (HAP)	-	0.001
108883	Toluene (HAP-TOX)	VOC	0.027
79016	Trichloroethylene (HAP)	VOC	0.004
1330207	Xylenes (isomers and mixture) (HAP)	VOC	0.006

\*Rounded to 3 digits past the decimal point. Note that where rounding results in 0, <.001 is indicated.

**2021 Emissions Inventory Report**  
**OG AND E (330)**  
**SOONER GENERATING STATION (1211)**

**COMPANY**

**Mailing Address:** PO BOX 321 MC610  
 OKLAHOMA CITY, OK 73102-0321

**Contact Phone:** (405) 553-3000

**Contact FAX:** (553) 553-3689

**FACILITY**

**Facility Identifier:** 1211 **Facility Name:** SOONER GENERATING STATION

**Status:** OP - Operating **Status Year:**

**NAICS:** 221112 (Primary) - Fossil Fuel Electric Power Generation

**Comments:**

**FACILITY - ADDRESS**

**Location Address:** 10800 COUNTY RD 230  
 RED ROCK, OK 74651

**FACILITY - LOCATION**

**Latitude (decimal degrees):** 36.45183 **Longitude (decimal degrees):** -97.06352

**Collection Method:** 014 - GPS code measurements (pseudo range) differential (DGPS) **Data Collection Date:** 07/03/2008

**Geographic Reference Point:** 101 - Entrance Point of a Facility, System, or Station **Geodetic Reference System:** 003 - World Geodetic System of 1984

**FACILITY - ADDITIONAL INFORMATION**

Field Name	Field Value
Oil & Gas Facility Category	Not Applicable
Permit Number(s)	2019-0895-ARR4,2016-0552-TVR3 M-4,2010-338-C M-3,2010-338-C M-1 PSD,2003-274-C M-3
API/US Well Number	
SIC Number	4911
TRI Identifier (ID)	74651SNRGNHWY15

RELEASE POINTS					
ID	Type	Description	Status	Details	Location
9953	Vertical	Electric Power Generation Boiler - Unit NO 1	OP in 2007	Height: 500.0 FEET, Shape: Circular, Diameter: 20.0 FEET, Temperature: 264.0 F, Flow Rate: 1,917,770.0 ACFM, Velocity: 106.1 FPS	Uses Facility Site Location
9954	Vertical	Electric Power Generation Boiler - Unit NO 2	OP in 2007	Height: 500.0 FEET, Shape: Circular, Diameter: 20.0 FEET, Temperature: 264.0 F, Flow Rate: 1,917,770.0 ACFM, Velocity: 106.1 FPS	Uses Facility Site Location
9955	Fugitive Area	Coal Screening and Handling	OP in 2002	Fugitive Height: 20.0 FEET, Fugitive Width: 195.0 FEET, Fugitive Length: 195.0 FEET, Fugitive Angle: 0°	Uses Facility Site Location
21424	Vertical	Auxiliary Boiler Stack	OP in 2002	Height: 109.0 FEET, Shape: Circular, Diameter: 2.0 FEET, Temperature: 1,746.0 F, Flow Rate: 430.0 ACFM, Velocity: 2.281 FPS	Uses Facility Site Location
41838	Fugitive Area	Coal Pile	OP in 2007	Fugitive Height: 48.0 FEET, Fugitive Width: 1,474.0 FEET, Fugitive Length: 1,474.0 FEET, Fugitive Angle: 0°	Uses Facility Site Location
47152	Vertical	NO 1 Emergency Generator	PS in 2007	Height: 13.0 FEET, Shape: Circular, Diameter: 1.0 FEET, Temperature: 440.0 F, Flow Rate: 1.0 ACFM, Velocity:	Uses Facility Site Location
47153	Vertical	NO 2 Emergency Generator	OP in 2007	Height: 13.0 FEET, Shape: Circular, Diameter: 1.0 FEET, Temperature: 440.0 F, Flow Rate: 1.0 ACFM, Velocity:	Uses Facility Site Location
47237	Vertical	Emergency Diesel Fire Pump	OP in 2007	Height: 9.0 FEET, Shape: Circular, Diameter: 0.66 FEET, Temperature: 440.0 F, Flow Rate: 1.0 ACFM, Velocity:	Uses Facility Site Location
50627	Vertical	Generac Model QT025A	OP in 2011	Height: 3.0 FEET, Shape: Circular, Diameter: 0.12 FEET, Temperature: 975.0 F, Flow Rate: 220.0 ACFM, Velocity: 324.204 FPS	Uses Facility Site Location
138500	Vertical	Activated Carbon Silo	OP in 2016	Height: 50.0 FEET, Shape: Circular, Diameter: 1.0 FEET, Temperature: 75.0 F, Flow Rate: , Velocity: 21.0 FPS	Uses Facility Site Location
138518	Fugitive Area	Activated Carbon Handling Road	OP in 2016	Fugitive Height: 1.0 FEET, Fugitive Width: 932.0 FEET, Fugitive Length: 932.0 FEET, Fugitive Angle: 0°	Uses Facility Site Location
205153	Vertical	New Emergency Generator 1 - Caterpillar C15	OP in 2021	Height: 13.0 FEET, Shape: Circular, Diameter: 1.0 FEET, Temperature: 440.0 F, Flow Rate: 1.0 ACFM, Velocity: 1.27324 FPM	Uses Facility Site Location

CONTROL DEVICES				
ID	Description	Status	Control Measure	Controlled Pollutants
123874	Fabric Filter / Baghouse Primary 100 90	OP	127 - Fabric Filter / Baghouse	PM10-PP1-PM10 - Primary (Filterable + Condensable): 90.0%
123875	Fabric Filter / Baghouse Primary 100 99	OP	127 - Fabric Filter / Baghouse	PM10-PP1-PM10 - Primary (Filterable + Condensable): 99.0%, PM25-PP1-PM2.5 - Primary (Filterable + Condensable): 99.0%
123876	Electrostatic Precipitator - Dry (DESP) Primary 100 99.5	OP	128 - Electrostatic Precipitator - Dry (DESP)	PM10-PP1-PM10 - Primary (Filterable + Condensable): 99.5%, PM25-PP1-PM2.5 - Primary (Filterable + Condensable): 99.5%
123877	Activated Carbon Injection (ACI) Primary 100 90	OP	207 - Activated Carbon Injection (ACI)	7439976-Mercury: 90.0%
123878	Flue Gas Desulfurization (FGD) Primary 100 95	OP	215 - Flue Gas Desulfurization (FGD)	SO2-Sulfur Oxides (SOx) expressed as SO2: 95.0%
123879	Dust Suppression Primary 100 75	OP	217 - Dust Suppression	PM10-PP1-PM10 - Primary (Filterable + Condensable): 75.0%, PM25-PP1-PM2.5 - Primary (Filterable + Condensable): 75.0%
123880	Dust Suppression Primary 100 85	OP	217 - Dust Suppression	PM25-PP1-PM2.5 - Primary (Filterable + Condensable): 85.0%

EMISSION UNITS				
ID	Type	Description	Status	Details
9953	100 - Boiler	Electric Power Generation Boiler Combustion Engineering - Unit NO 1	OP in 2002	Operation Start: , Design Capacity: 5,116.0 E6BTU/HR
9954	100 - Boiler	Electric Power Generation Boiler Combustion Engineering - Unit NO 2	OP in 2002	Operation Start: , Design Capacity: 5,116.0 E6BTU/HR
9955	760 - Conveyor	Coal Crushing, Screening and Handling	OP in 2002	Operation Start: , Design Capacity:
21130	100 - Boiler	Auxiliary Boiler	OP in 2003	Operation Start: , Design Capacity: 33.0 E6BTU/HR
42026	785 - Open Storage Pile	Coal Pile	OP in 2007	Operation Start: , Design Capacity:
47366	160 - Reciprocating IC Engine	NO 1 Emergency Generator GM- Detroit Serial 73099	PS in 2007	Operation Start: , Design Capacity: 750.0 HP
47367	160 - Reciprocating IC Engine	NO 2 Emergency Generator GM-Detroit Serial NO 73100	OP in 2007	Operation Start: , Design Capacity: 750.0 HP
47471	160 - Reciprocating IC Engine	Emergency Diesel Fire Pump Cummins VT1710F Serial 44932	OP in 2007	Operation Start: , Design Capacity: 700.0 HP
50942	160 - Reciprocating IC Engine	Generac Model QT025A	OP in 2007	Operation Start: , Design Capacity: 43.29 HP
138766	780 - Silo	Activated Carbon Handling Equipment	OP in 2016	Operation Start: , Design Capacity:
138775	390 - Other fugitive	Activated Carbon Handling Road Travel	OP in 2016	Operation Start: , Design Capacity:
205940	160 - Reciprocating IC Engine	New Emergency Generator 1 - Caterpillar C15	OP in 2021	Operation Start: , Design Capacity: 762.0 HP

UNIT PROCESSES					
Emission Unit ID	Unit Process ID	SCC	Description	Status	Details
<b>9953</b> Electric Power Generation Boiler Combustion Engineering - Unit NO 1	49748	10100226	Subbituminous Coal, Pulverized - Boiler, Dry Bottom Tangential-fired	OP	<b>Control Approach</b> Controlled?: Yes Description: Electrostatic Precipitator - Dry (DESP) and other measures <u>Control Devices:</u> 123876-Electrostatic Precipitator - Dry (DESP) Primary 100 99.5, Seq: 1, Capture Efficiency: 100.0%, Uptime/Effectiveness: 100.0% 123877-Activated Carbon Injection (ACI) Primary 100 90, Seq: 2, Capture Efficiency: 100.0%, Uptime/Effectiveness: 100.0% 123878-Flue Gas Desulfurization (FGD) Primary 100 95, Seq: 3, Capture Efficiency: 100.0%, Uptime/Effectiveness: 100.0% <b>Release Point Apportionment:</b> 9953 - Electric Power Generation Boiler - Unit NO 1: 100.0%
<b>9953</b> Electric Power Generation Boiler Combustion Engineering - Unit NO 1	49749	10100501	Distillate Oil - Grades 1 and 2 - Boiler	OP	<b>Control Approach</b> Controlled?: No Description: Control approach not specified. Assumes not controlled. <b>Release Point Apportionment:</b> 9953 - Electric Power Generation Boiler - Unit NO 1: 100.0%
<b>9954</b> Electric Power Generation Boiler Combustion Engineering - Unit NO 2	49750	10100226	Subbituminous Coal, Pulverized - Boiler, Dry Bottom Tangential-fired	OP	<b>Control Approach</b> Controlled?: Yes Description: Electrostatic Precipitator - Dry (DESP) and other measures <u>Control Devices:</u> 123876-Electrostatic Precipitator - Dry (DESP) Primary 100 99.5, Seq: 1, Capture Efficiency: 100.0%, Uptime/Effectiveness: 100.0% 123877-Activated Carbon Injection (ACI) Primary 100 90, Seq: 2, Capture Efficiency: 100.0%, Uptime/Effectiveness: 100.0% 123878-Flue Gas Desulfurization (FGD) Primary 100 95, Seq: 3, Capture Efficiency: 100.0%, Uptime/Effectiveness: 100.0% <b>Release Point Apportionment:</b> 9954 - Electric Power Generation Boiler - Unit NO 2: 100.0%
<b>9954</b> Electric Power Generation Boiler Combustion Engineering - Unit NO 2	49751	10100501	Distillate Oil - Grades 1 and 2 - Boiler	OP	<b>Control Approach</b> Controlled?: No Description: Control approach not specified. Assumes not controlled. <b>Release Point Apportionment:</b> 9954 - Electric Power Generation Boiler - Unit NO 2: 100.0%
<b>9955</b> Coal Crushing, Screening and Handling	49752	30510103	Bulk Materials Conveyors - Coal	OP	<b>Control Approach</b> Controlled?: Yes Description: Dust Suppression and other measures <u>Control Devices:</u> 123874-Fabric Filter / Baghouse Primary 100 90, Seq: 1, Capture Efficiency: 100.0%, Uptime/Effectiveness: 100.0% 123880-Dust Suppression Primary 100 85, Seq: 2, Capture Efficiency: 100.0%, Uptime/Effectiveness: 100.0% <b>Release Point Apportionment:</b> 9955 - Coal Screening and Handling: 100.0%



Emission Unit ID	Unit Process ID	SCC	Description	Status	Details
<b>21130</b> Auxiliary Boiler	<b>119495</b>	10200502	Distillate Oil - 10-100 Million BTU/hr **	OP	<b>Control Approach</b> Controlled?: No Description: Control approach not specified. Assumes not controlled.  <b>Release Point Apportionment:</b> 21424 - Auxiliary Boiler Stack: 100.0%
<b>42026</b> Coal File	<b>149891</b>	30510303	Bulk Materials Open Stockpiles - Coal	OP	<b>Control Approach</b> Controlled?: Yes Description: Dust Suppression <u>Control Devices:</u> 123879-Dust Suppression Primary 100 75, Seq: 1, Capture Efficiency: 100.0%, Uptime/Effectiveness: 100.0%  <b>Release Point Apportionment:</b> 41838 - Coal File: 100.0%
<b>47366</b> NO 1 Emergency Generator GM-Detroit Serial 73099	<b>156028</b>	20200401	Diesel - Large Bore Engine	PS in 2019	<b>Control Approach</b> Controlled?: No Description: Control approach not specified. Assumes not controlled.  <b>Release Point Apportionment:</b> 47152 - NO 1 Emergency Generator: 100.0%
<b>47367</b> NO 2 Emergency Generator GM-Detroit Serial NO 73100	<b>156029</b>	20200401	Diesel - Large Bore Engine	OP	<b>Control Approach</b> Controlled?: No Description: Control approach not specified. Assumes not controlled.  <b>Release Point Apportionment:</b> 47153 - NO 2 Emergency Generator: 100.0%
<b>47471</b> Emergency Diesel Fire Pump Cummins VT1710F Serial 44932	<b>156118</b>	20200401	Diesel - Large Bore Engine	OP	<b>Control Approach</b> Controlled?: No Description: Control approach not specified. Assumes not controlled.  <b>Release Point Apportionment:</b> 47237 - Emergency Diesel Fire Pump: 100.0%
<b>50942</b> Generac Model QT025A	<b>160549</b>	20201001	Liquified Petroleum Gas (LPG) - Propane: Reciprocating	OP	<b>Control Approach</b> Controlled?: No Description: Control approach not specified. Assumes not controlled.  <b>Release Point Apportionment:</b> 50627 - Generac Model QT025A: 100.0%
<b>138766</b> Activated Carbon Handling Equipment	<b>259565</b>	30510496	Bulk Materials Unloading Operation - Chemical: Specify in Comments	OP	<b>Control Approach</b> Controlled?: Yes Description: Fabric Filter / Baghouse <u>Control Devices:</u> 123875-Fabric Filter / Baghouse Primary 100 99, Seq: 1, Capture Efficiency: 100.0%, Uptime/Effectiveness: 100.0%  <b>Release Point Apportionment:</b> 138500 - Activated Carbon Silo: 100.0%

Emission Unit ID	Unit Process ID	SCC	Description	Status	Details
<b>138775</b> Activated Carbon Handling Road Travel	<b>259604</b>	30510496	Bulk Materials Unloading Operation - Chemical: Specify in Comments	OP	<b>Control Approach</b> Controlled?: No Description: Control approach not specified. Assumes not controlled.  <b>Release Point Apportionment:</b> 138518 - Activated Carbon Handling Road: 100.0%
<b>205940</b> New Emergency Generator 1 - Caterpillar C15	<b>334361</b>	20200401	New Emergency Generator 1 - Caterpillar C15	OP in 2021	<b>Control Approach</b> Controlled?: No Description:  <b>Release Point Apportionment:</b> 205153 - New Emergency Generator 1 - Caterpillar C15: 100.0%

PROCESS EMISSIONS				
Emission Unit ID	Unit Process ID	Throughput	Operations	
9953 Electric Power Generation Boiler Combustion Engineering - Unit NO 1	49748 Subbituminous Coal, Pulverized - Boiler, Dry Bottom Tangential-fired	Annual Throughput: 825,408.0 TONS (Coal) (Input)	Average Hours/Day: 19.8, Days/Week: 5.0, Weeks/Year: 36.0 Actual Hours/Year: 3,563.5 Seasonal Operations: Dec-Feb: 24.1%, Mar-May: 7.8%, Jun-Aug: 33.6%, Sep-Nov: 34.6%	
Pollutant	Emis. Factor (Lbs/UOM)	Emis. Factor UOM	Calculation Method	Estimated Emis. (Tons)
CO - Carbon Monoxide			1_0 - Continuous Emission Monitoring System (CEMS)	875.752
7439921 - Lead			10_0 - OK DEQ Approved Method (no EF)	0.0063
Emission Comment: Emissions Calculated with EPRI TRI For Power Plants Software				
NOX - Nitrogen Oxides (NOx) expressed as NO2			1_0 - Continuous Emission Monitoring System (CEMS)	938.328
PM10-FR1 - PM 10 - Primary (Filterable + Condensable)	0.020156	EBBTU - MILLION BTUS	10_3 - OK DEQ Approved Method (no Control EF)	145.7394512
PM25-FR1 - PM 2.5 - Primary (Filterable + Condensable)	0.018	EBBTU - MILLION BTUS	10_3 - OK DEQ Approved Method (no Control EF)	127.0556477
SO2 - Sulfur Oxides (SOx) expressed as SO2			1_0 - Continuous Emission Monitoring System (CEMS)	277.379
VOC - Volatile Organic Compounds (VOCs)	0.06	TON - TONS	8_3 - US EPA Documents incl. AP-42 & WebFIRE (no Control EF)	24.76224
Overall Control Efficiency: 0.0%				
121142 - 2,4-Dinitrotoluene			10_0 - OK DEQ Approved Method (no EF)	0.0195
Emission Comment: Emissions Calculated with EPRI TRI For Power Plants Software				
75070 - Acetaldehyde			10_0 - OK DEQ Approved Method (no EF)	0.0217
Emission Comment: Emissions Calculated with EPRI TRI For Power Plants Software				
98862 - Acetophenone			10_0 - OK DEQ Approved Method (no EF)	0.01445
Emission Comment: Emissions Calculated with EPRI TRI For Power Plants Software				
107028 - Acrolein			10_0 - OK DEQ Approved Method (no EF)	0.0253
Emission Comment: Emissions Calculated with EPRI TRI For Power Plants Software				
107131 - Acrylonitrile			10_0 - OK DEQ Approved Method (no EF)	0.0795
Emission Comment: Emissions Calculated with EPRI TRI For Power Plants Software				
7440360 - Antimony			10_0 - OK DEQ Approved Method (no EF)	0.002055
Emission Comment: Emissions Calculated with EPRI TRI For Power Plants Software				
7440382 - Arsenic			10_0 - OK DEQ Approved Method (no EF)	0.003215
Emission Comment: Emissions Calculated with EPRI TRI For Power Plants Software				
71432 - Benzene (including benzene from gasoline)			10_0 - OK DEQ Approved Method (no EF)	0.01445
Emission Comment: Emissions Calculated with EPRI TRI For Power Plants Software				
92875 - Benzidine			10_0 - OK DEQ Approved Method (no EF)	0.02025
Emission Comment: Emissions Calculated with EPRI TRI For Power Plants Software				
100447 - Benzyl chloride			10_0 - OK DEQ Approved Method (no EF)	0.01375
Emission Comment: Emissions Calculated with EPRI TRI For Power Plants Software				
7440417 - Beryllium			10_0 - OK DEQ Approved Method (no EF)	0.000349
Emission Comment: Emissions Calculated with EPRI TRI For Power Plants Software				
92524 - Biphenyl			10_0 - OK DEQ Approved Method (no EF)	0.00087
Emission Comment: Emissions Calculated with EPRI TRI For Power Plants Software				
117817 - Bis(2-ethylhexyl)phthalate (DEHP)			10_0 - OK DEQ Approved Method (no EF)	0.02075
Emission Comment: Emissions Calculated with EPRI TRI For Power Plants Software				
7440439 - Cadmium			10_0 - OK DEQ Approved Method (no EF)	0.000945

Pollutant	Emission Factor (lb/hr/ton)	Emission Factor (lb/hr/ton)	Calculation Method	Estimated Emis. (Tons)
75150 - Carbon disulfide			10_0 - OK DEQ Approved Method (no EF)	0.0123
	<b>Emission Comment:</b> Emissions Calculated with EPRI TRI For Power Plants Software			
56235 - Carbon tetrachloride			10_0 - OK DEQ Approved Method (no EF)	0.001155
	<b>Emission Comment:</b> Emissions Calculated with EPRI TRI For Power Plants Software			
108907 - Chlorobenzene			10_0 - OK DEQ Approved Method (no EF)	0.00101
	<b>Emission Comment:</b> Emissions Calculated with EPRI TRI For Power Plants Software			
67663 - Chloroform			10_0 - OK DEQ Approved Method (no EF)	0.001155
	<b>Emission Comment:</b> Emissions Calculated with EPRI TRI For Power Plants Software			
7440473 - Chromium			10_0 - OK DEQ Approved Method (no EF)	0.01135
	<b>Emission Comment:</b> Emissions Calculated with EPRI TRI For Power Plants Software			
7440484 - Cobalt			10_0 - OK DEQ Approved Method (no EF)	0.00295
	<b>Emission Comment:</b> Emissions Calculated with EPRI TRI For Power Plants Software			
98828 - Cumene			10_0 - OK DEQ Approved Method (no EF)	0.000795
	<b>Emission Comment:</b> Emissions Calculated with EPRI TRI For Power Plants Software			
132649 - Dibenzofuran			10_0 - OK DEQ Approved Method (no EF)	0.02025
	<b>Emission Comment:</b> Emissions Calculated with EPRI TRI For Power Plants Software			
84742 - Dibutylphthalate			10_0 - OK DEQ Approved Method (no EF)	0.0053
	<b>Emission Comment:</b> Emissions Calculated with EPRI TRI For Power Plants Software			
131113 - Dimethyl phthalate			10_0 - OK DEQ Approved Method (no EF)	0.0065
	<b>Emission Comment:</b> Emissions Calculated with EPRI TRI For Power Plants Software			
100414 - Ethyl benzene			10_0 - OK DEQ Approved Method (no EF)	0.00101
	<b>Emission Comment:</b> Emissions Calculated with EPRI TRI For Power Plants Software			
106934 - Ethylene dibromide (Dibromoethane)			10_0 - OK DEQ Approved Method (no EF)	0.003545
	<b>Emission Comment:</b> Emissions Calculated with EPRI TRI For Power Plants Software			
107062 - Ethylene dichloride (1,2-Dichloroethane)			10_0 - OK DEQ Approved Method (no EF)	0.002385
	<b>Emission Comment:</b> Emissions Calculated with EPRI TRI For Power Plants Software			
50000 - Formaldehyde			10_0 - OK DEQ Approved Method (no EF)	0.0254
	<b>Emission Comment:</b> Emissions Calculated with EPRI TRI For Power Plants Software			
110543 - Hexane			10_0 - OK DEQ Approved Method (no EF)	0.0159
	<b>Emission Comment:</b> Emissions Calculated with EPRI TRI For Power Plants Software			
7647010 - Hydrochloric acid			10_0 - OK DEQ Approved Method (no EF)	0.4295
	<b>Emission Comment:</b> Emissions Calculated with EPRI TRI For Power Plants Software. Previously a site specific emission factor was used in the software. However, since the scrubbers are fully operational, the stack test was no longer representative. The program estimates the emissions in the acid calculator which shows the scrubber reduced emissions of HCl ~90%.			
7664393 - Hydrogen fluoride (Hydrofluoric acid)			10_0 - OK DEQ Approved Method (no EF)	1.665
	<b>Emission Comment:</b> Emissions Calculated with EPRI TRI For Power Plants Software			
7439965 - Manganese			10_0 - OK DEQ Approved Method (no EF)	0.01635
	<b>Emission Comment:</b> Emissions Calculated with EPRI TRI For Power Plants Software			
7439976 - Mercury			10_0 - OK DEQ Approved Method (no EF)	0.007
	<b>Emission Comment:</b> Emissions Calculated with EPRI TRI For Power Plants Software			
71556 - Methyl chloroform (1,1,1-Trichloroethane)			10_0 - OK DEQ Approved Method (no EF)	0.00181
	<b>Emission Comment:</b> Emissions Calculated with EPRI TRI For Power Plants Software			
74884 - Methyl iodide (Iodomethane)			10_0 - OK DEQ Approved Method (no EF)	0.00311
	<b>Emission Comment:</b> Emissions Calculated with EPRI TRI For Power Plants Software			
108101 - Methyl isobutyl ketone (Hexone)			10_0 - OK DEQ Approved Method (no EF)	0.0645
	<b>Emission Comment:</b> Emissions Calculated with EPRI TRI For Power Plants Software			

Pollutant	Emis. Factor (Lbs/UOM)	Emis. Factor UOM	Calculation Method	Estimated Emis. (Tons)
75092 - Methylene chloride (Dichloromethane)			10_0 - OK DEQ Approved Method (no EF)	0.1375
<b>Emission Comment:</b> Emissions Calculated with EPRI TRI For Power Plants Software				
91203 - Naphthalene			10_0 - OK DEQ Approved Method (no EF)	0.00226
<b>Emission Comment:</b> Emissions Calculated with EPRI TRI For Power Plants Software				
7440020 - Nickel			10_0 - OK DEQ Approved Method (no EF)	0.0129
<b>Emission Comment:</b> Emissions Calculated with EPRI TRI For Power Plants Software				
95476 - o-Xylene			10_0 - OK DEQ Approved Method (no EF)	0.001415
<b>Emission Comment:</b> Emissions Calculated with EPRI TRI For Power Plants Software				
108952 - Phenol			10_0 - OK DEQ Approved Method (no EF)	0.01375
<b>Emission Comment:</b> Emissions Calculated with EPRI TRI For Power Plants Software				
123386 - Propionaldehyde			10_0 - OK DEQ Approved Method (no EF)	0.03615
<b>Emission Comment:</b> Emissions Calculated with EPRI TRI For Power Plants Software				
100425 - Styrene			10_0 - OK DEQ Approved Method (no EF)	0.00094
<b>Emission Comment:</b> Emissions Calculated with EPRI TRI For Power Plants Software				
7664939 - Sulfuric acid (including acid mist expressed as H2SO4)			10_0 - OK DEQ Approved Method (no EF)	0.02505
<b>Emission Comment:</b> Emissions Calculated with EPRI TRI For Power Plants Software				
127184 - Tetrachloroethylene (Perchloroethylene)			10_0 - OK DEQ Approved Method (no EF)	0.0003905
<b>Emission Comment:</b> Emissions Calculated with EPRI TRI For Power Plants Software				
108883 - Toluene			10_0 - OK DEQ Approved Method (no EF)	0.01155
<b>Emission Comment:</b> Emissions Calculated with EPRI TRI For Power Plants Software				
79016 - Trichloroethylene			10_0 - OK DEQ Approved Method (no EF)	0.00188
<b>Emission Comment:</b> Emissions Calculated with EPRI TRI For Power Plants Software				
1330207 - Xylenes (isomers and mixture)			10_0 - OK DEQ Approved Method (no EF)	0.00275
<b>Emission Comment:</b> Emissions Calculated with EPRI TRI For Power Plants Software				

Emission Unit ID	Unit Process ID	Throughput	Operations	
9953 Electric Power Generation Boiler Combustion Engineering - Unit NO 1	49749 Distillate Oil - Grades 1 and 2 - Boiler	Annual Throughput: 946.44 1000 GALLONS (Diesel) (Input)	Average Hours/Day: 1.7, Days/Week: 5.0, Weeks/Year: 36.0 Actual Hours/Year: 312.4 Seasonal Operations: Dec-Feb: 24.1%, Mar-May: 7.8%, Jun-Aug: 33.6%, Sep-Nov: 34.6%	
Pollutant	Emis. Factor (Lbs/UOM)	Emis. Factor UOM	Calculation Method	Estimated Emis. (Tons)
CO - Carbon Monoxide			1_0 - Continuous Emission Monitoring System (CEMS)	0.0
<b>Emission Comment:</b> Reported on CEMS for coal process				
PM10-FRI - PM10 - Primary (Filterable + Condensible)	2.3	E3GAL - 1000 GALLONS	8_3 - US EPA Documents incl. AP-42 & WebFIRE (no Control EF)	1.088406
<b>Overall Control Efficiency:</b> 0.0%				
PM25-FRI - PM2.5 - Primary (Filterable + Condensible)	1.55	E3GAL - 1000 GALLONS	8_3 - US EPA Documents incl. AP-42 & WebFIRE (no Control EF)	0.733491
<b>Overall Control Efficiency:</b> 0.0%				
VOC - Volatile Organic Compounds (VOCs)	0.2	E3GAL - 1000 GALLONS	8_3 - US EPA Documents incl. AP-42 & WebFIRE (no Control EF)	0.094644
<b>Overall Control Efficiency:</b> 0.0%				
50000 - Formaldehyde	0.061	E3GAL - 1000 GALLONS	8_3 - US EPA Documents incl. AP-42 & WebFIRE (no Control EF)	0.02886642
<b>Overall Control Efficiency:</b> 0.0%				

Emission Unit ID	Unit Process ID	Throughput	Operations			
9954 Electric Power Generation Boiler Combustion Engineering - Unit NO2	49750 Subbituminous Coal, Pulverized - Boiler, Dry Bottom Tangential-fired	Annual Throughput: 1,077,040.0 TONS (Coal) (Input)	Average Hours/Day: 20.2, Days/Week: 5.5, Weeks/Year: 43.0 Actual Hours/Year: 4,783.7 Seasonal Operations: Dec-Feb: 24.7%, Mar-May: 20.6%, Jun-Aug: 26.6%, Sep-Nov: 28.0%			
		Pollutant	Emis. Factor (Lbs/UOM)	Emis. Factor UOM	Calculation Method	Estimated Emis. (Tons)
		CO - Carbon Monoxide			1_0 - Continuous Emission Monitoring System (CEMS)	594.25
		7439921 - Lead			10_0 - OK DEQ Approved Method (no EF)	0.0063
		Emission Comment: Emissions Calculated with EPRI TRI For Power Plants Software				
		NOX - Nitrogen Oxides (NOx) expressed as NO2			1_0 - Continuous Emission Monitoring System (CEMS)	1,257.503
		PM10-FRI - PM10 - Primary (Filterable + Condensible)	0.041	EBBTU - MILLION BTUS	10_3 - OK DEQ Approved Method (no Control EF)	390.4149372
		PM25-FRI - PM2.5 - Primary (Filterable + Condensible)	0.036	EBBTU - MILLION BTUS	10_3 - OK DEQ Approved Method (no Control EF)	340.2214266
		SO2 - Sulfur Oxides (SOx) expressed as SO2			1_0 - Continuous Emission Monitoring System (CEMS)	294.809
		VOC - Volatile Organic Compounds (VOCs)	0.06	TON- TONS	8_3 - US EPA Documents incl. AP-42 & WebFIRE (no Control EF)	32.3112
		Overall Control Efficiency: 0.0%				
		121142 - 2,4-Dinitrotoluene			10_0 - OK DEQ Approved Method (no EF)	0.02545
		Emission Comment: Emissions Calculated with EPRI TRI For Power Plants Software				
		75070 - Acetaldehyde			10_0 - OK DEQ Approved Method (no EF)	0.0283
		Emission Comment: Emissions Calculated with EPRI TRI For Power Plants Software				
		98862 - Acetophenone			10_0 - OK DEQ Approved Method (no EF)	0.01885
		Emission Comment: Emissions Calculated with EPRI TRI For Power Plants Software				
		107028 - Acrolein			10_0 - OK DEQ Approved Method (no EF)	0.033
		Emission Comment: Emissions Calculated with EPRI TRI For Power Plants Software				
		107131 - Acrylonitrile			10_0 - OK DEQ Approved Method (no EF)	0.104
		Emission Comment: Emissions Calculated with EPRI TRI For Power Plants Software				
		7440360 - Antimony			10_0 - OK DEQ Approved Method (no EF)	0.002665
		Emission Comment: Emissions Calculated with EPRI TRI For Power Plants Software				
		7440382 - Arsenic			10_0 - OK DEQ Approved Method (no EF)	0.00408
		Emission Comment: Emissions Calculated with EPRI TRI For Power Plants Software				
		71432 - Benzene (including benzene from gasoline)			10_0 - OK DEQ Approved Method (no EF)	0.01885
		Emission Comment: Emissions Calculated with EPRI TRI For Power Plants Software				
		92875 - Benzidine			10_0 - OK DEQ Approved Method (no EF)	0.0264
		Emission Comment: Emissions Calculated with EPRI TRI For Power Plants Software				
		100447 - Benzyl chloride			10_0 - OK DEQ Approved Method (no EF)	0.01795
		Emission Comment: Emissions Calculated with EPRI TRI For Power Plants Software				
		7440417 - Beryllium			10_0 - OK DEQ Approved Method (no EF)	0.000445
		Emission Comment: Emissions Calculated with EPRI TRI For Power Plants Software				
		92524 - Biphenyl			10_0 - OK DEQ Approved Method (no EF)	0.00113
		Emission Comment: Emissions Calculated with EPRI TRI For Power Plants Software				
		117817 - Bis(2-ethylhexyl)phthalate (DEHP)			10_0 - OK DEQ Approved Method (no EF)	0.02645
		Emission Comment: Emissions Calculated with EPRI TRI For Power Plants Software				
		7440439 - Cadmium			10_0 - OK DEQ Approved Method (no EF)	0.001215
		Emission Comment: Emissions Calculated with EPRI TRI For Power Plants Software				

Pollutant	Emiss. Factor (Lbs/UOM)	Emiss. Factor UOM	Calculation Method	Estimated Emiss. (Tons)
75150 - Carbon disulfide			10_0 - OK DEQ Approved Method (no EF)	0.01605
	<b>Emission Comment:</b> Emissions Calculated with EPRI TRI For Power Plants Software			
56235 - Carbon tetrachloride			10_0 - OK DEQ Approved Method (no EF)	0.00151
	<b>Emission Comment:</b> Emissions Calculated with EPRI TRI For Power Plants Software			
108907 - Chlorobenzene			10_0 - OK DEQ Approved Method (no EF)	0.00132
	<b>Emission Comment:</b> Emissions Calculated with EPRI TRI For Power Plants Software			
67663 - Chloroform			10_0 - OK DEQ Approved Method (no EF)	0.00151
	<b>Emission Comment:</b> Emissions Calculated with EPRI TRI For Power Plants Software			
7440473 - Chromium			10_0 - OK DEQ Approved Method (no EF)	0.0145
	<b>Emission Comment:</b> Emissions Calculated with EPRI TRI For Power Plants Software			
7440484 - Cobalt			10_0 - OK DEQ Approved Method (no EF)	0.003765
	<b>Emission Comment:</b> Emissions Calculated with EPRI TRI For Power Plants Software			
98828 - Cumene			10_0 - OK DEQ Approved Method (no EF)	0.00104
	<b>Emission Comment:</b> Emissions Calculated with EPRI TRI For Power Plants Software			
132649 - Dibenzofuran			10_0 - OK DEQ Approved Method (no EF)	0.0264
	<b>Emission Comment:</b> Emissions Calculated with EPRI TRI For Power Plants Software			
84742 - Dibutylphthalate			10_0 - OK DEQ Approved Method (no EF)	0.0069
	<b>Emission Comment:</b> Emissions Calculated with EPRI TRI For Power Plants Software			
131113 - Dimethyl phthalate			10_0 - OK DEQ Approved Method (no EF)	0.0085
	<b>Emission Comment:</b> Emissions Calculated with EPRI TRI For Power Plants Software			
100414 - Ethyl benzene			10_0 - OK DEQ Approved Method (no EF)	0.00132
	<b>Emission Comment:</b> Emissions Calculated with EPRI TRI For Power Plants Software			
106934 - Ethylene dibromide (Dibromoethane)			10_0 - OK DEQ Approved Method (no EF)	0.004625
	<b>Emission Comment:</b> Emissions Calculated with EPRI TRI For Power Plants Software			
107062 - Ethylene dichloride (1,2-Dichloroethane)			10_0 - OK DEQ Approved Method (no EF)	0.003115
	<b>Emission Comment:</b> Emissions Calculated with EPRI TRI For Power Plants Software			
50000 - Formaldehyde			10_0 - OK DEQ Approved Method (no EF)	0.02925
	<b>Emission Comment:</b> Emissions Calculated with EPRI TRI For Power Plants Software			
110543 - Hexane			10_0 - OK DEQ Approved Method (no EF)	0.02075
	<b>Emission Comment:</b> Emissions Calculated with EPRI TRI For Power Plants Software			
7647010 - Hydrochloric acid			10_0 - OK DEQ Approved Method (no EF)	0.55
	<b>Emission Comment:</b> Emissions Calculated with EPRI TRI For Power Plants Software. Previously a site specific emission factor was used in the software. However, since the scrubbers are fully operational, the stack test was no longer representative. The program estimates the emissions in the acid calculator which shows the scrubber reduced emissions of HCl ~95%.			
7664393 - Hydrogen fluoride (Hydrofluoric acid)			10_0 - OK DEQ Approved Method (no EF)	2.17
	<b>Emission Comment:</b> Emissions Calculated with EPRI TRI For Power Plants Software			
7439965 - Manganese			10_0 - OK DEQ Approved Method (no EF)	0.02085
	<b>Emission Comment:</b> Emissions Calculated with EPRI TRI For Power Plants Software			
7439976 - Mercury			10_0 - OK DEQ Approved Method (no EF)	0.008
	<b>Emission Comment:</b> Emissions Calculated with EPRI TRI For Power Plants Software			
71556 - Methyl chloroform (1,1,1-Trichloroethane)			10_0 - OK DEQ Approved Method (no EF)	0.00236
	<b>Emission Comment:</b> Emissions Calculated with EPRI TRI For Power Plants Software			
74884 - Methyl iodide (Iodomethane)			10_0 - OK DEQ Approved Method (no EF)	0.004055
	<b>Emission Comment:</b> Emissions Calculated with EPRI TRI For Power Plants Software			
108101 - Methyl isobutyl ketone (Hexone)			10_0 - OK DEQ Approved Method (no EF)	0.084
	<b>Emission Comment:</b> Emissions Calculated with EPRI TRI For Power Plants Software			

Pollutant	Emis. Factor (Lbs/UOM)	Emis. Factor UOM	Calculation Method	Estimated Emis. (Tons)
75092 - Methylene chloride (Dichloromethane)			10_0 - OK DEQ Approved Method (no EF)	0.1795
<b>Emission Comment:</b> Emissions Calculated with EPRI TRI For Power Plants Software				
91203 - Naphthalene			10_0 - OK DEQ Approved Method (no EF)	0.002935
<b>Emission Comment:</b> Emissions Calculated with EPRI TRI For Power Plants Software				
7440020 - Nickel			10_0 - OK DEQ Approved Method (no EF)	0.01655
<b>Emission Comment:</b> Emissions Calculated with EPRI TRI For Power Plants Software				
95476 - o-Xylene			10_0 - OK DEQ Approved Method (no EF)	0.001835
<b>Emission Comment:</b> Emissions Calculated with EPRI TRI For Power Plants Software				
108952 - Phenol			10_0 - OK DEQ Approved Method (no EF)	0.01795
<b>Emission Comment:</b> Emissions Calculated with EPRI TRI For Power Plants Software				
123386 - Propionaldehyde			10_0 - OK DEQ Approved Method (no EF)	0.04715
<b>Emission Comment:</b> Emissions Calculated with EPRI TRI For Power Plants Software				
100425 - Styrene			10_0 - OK DEQ Approved Method (no EF)	0.001225
<b>Emission Comment:</b> Emissions Calculated with EPRI TRI For Power Plants Software				
7664939 - Sulfuric acid (including acid mist expressed as H2SO4)			10_0 - OK DEQ Approved Method (no EF)	0.03265
<b>Emission Comment:</b> Emissions Calculated with EPRI TRI For Power Plants Software				
127184 - Tetrachloroethylene (Perchloroethylene)			10_0 - OK DEQ Approved Method (no EF)	0.00051
<b>Emission Comment:</b> Emissions Calculated with EPRI TRI For Power Plants Software				
108883 - Toluene			10_0 - OK DEQ Approved Method (no EF)	0.0151
<b>Emission Comment:</b> Emissions Calculated with EPRI TRI For Power Plants Software				
79016 - Trichloroethylene			10_0 - OK DEQ Approved Method (no EF)	0.002455
<b>Emission Comment:</b> Emissions Calculated with EPRI TRI For Power Plants Software				
1330207 - Xylenes (isomers and mixture)			10_0 - OK DEQ Approved Method (no EF)	0.003585
<b>Emission Comment:</b> Emissions Calculated with EPRI TRI For Power Plants Software				

Emission Unit ID	Unit Process ID	Throughput		Operations		
9954 Electric Power Generation Boiler Combustion Engineering - Unit NO 2	49751 Distillate Oil - Grades 1 and 2 - Boiler	Annual Throughput: 1,070.35 1000 GALLONS (Diesel) (Input)		Average Hours/Day: 2.0, Days/Week: 5.5, Weeks/Year: 43.0 Actual Hours/Year: 468.8 Seasonal Operations: Dec-Feb: 24.7%, Mar-May: 20.6%, Jun-Aug: 26.6%, Sep-Nov: 28.0%		
		Pollutant	Emis. Factor (Lbs/UOM)	Emis. Factor UOM	Calculation Method	Estimated Emis. (Tons)
		CO - Carbon Monoxide			1_0 - Continuous Emission Monitoring System (CEMS)	0.0
		Emission Comment: Reported on CEMS for coal process				
		PM10-FRI - PM 10 - Primary (Filterable + Condensible)	2.3	E3GAL - 1000 GALLONS	8_3 - US EPA Documents incl. AP-42 & WebFIRE (no Control EF)	1.2309025
		Overall Control Efficiency: 0.0%				
		PM25-FRI - PM 2.5 - Primary (Filterable + Condensible)	1.55	E3GAL - 1000 GALLONS	8_3 - US EPA Documents incl. AP-42 & WebFIRE (no Control EF)	0.82952125
		Overall Control Efficiency: 0.0%				
		VOC - Volatile Organic Compounds (VOCs)	0.2	E3GAL - 1000 GALLONS	8_3 - US EPA Documents incl. AP-42 & WebFIRE (no Control EF)	0.107034999999999
		Overall Control Efficiency: 0.0%				
		50000 - Formaldehyde	0.061	E3GAL - 1000 GALLONS	8_3 - US EPA Documents incl. AP-42 & WebFIRE (no Control EF)	0.032645675
		Overall Control Efficiency: 0.0%				



Emission Unit ID	Unit Process ID	Throughput	Operations				
9955 Coal Crushing, Screening and Handling	49752 Bulk Materials Conveyors - Coal	Annual Throughput: 1,902,448.0 TONS (Coal) (Input)	Average Hours/Day: 20.2, Days/Week: 5.5, Weeks/Year: 43.0 Actual Hours/Year: 4,783.7 Seasonal Operations: Dec-Feb: 24.7%, Mar-May: 20.6%, Jun-Aug: 26.6%, Sep-Nov: 28.0%				
			Pollutant	Emis. Factor (Lbs/UOM)	Emis. Factor UOM	Calculation Method	Estimated Emis. (Tons)
			PM10-FR1 - PM 10 - Primary (Filterable + Condensible)			8_0 - US EPA Documents incl. AP-42 & WebFIRE (no EF)	11.92643743
			PM25-FR1 - PM2.5 - Primary (Filterable + Condensible)			8_0 - US EPA Documents incl. AP-42 & WebFIRE (no EF)	0.199561141
Emission Unit ID	Unit Process ID	Throughput	Operations				
21130 Auxiliary Boiler	119495 Distillate Oil - 10-100 Mllion BTU/hr **	Annual Throughput: 289,289.0 GALLONS (Distillate Oil (Nb. 2)) (Input)	Average Hours/Day: 6.5, Days/Week: 7.0, Weeks/Year: 26.0 Actual Hours/Year: 1,191.7 Seasonal Operations: Dec-Feb: 63.5%, Mar-May: 12.3%, Jun-Aug: 0.0%, Sep-Nov: 24.2%				
			Pollutant	Emis. Factor (Lbs/UOM)	Emis. Factor UOM	Calculation Method	Estimated Emis. (Tons)
			CO - Carbon Mnoxide	5.0	E3GAL - 1000 GALLONS	10_3 - OK DEQ Approved Method (no Control EF)	0.723
			NOX - Nitrogen Oxides (NOx) expressed as NO2	20.0	E3GAL - 1000 GALLONS	10_3 - OK DEQ Approved Method (no Control EF)	2.893
			PM10-FR1 - PM 10 - Primary (Filterable + Condensible)	2.3	E3GAL - 1000 GALLONS	10_3 - OK DEQ Approved Method (no Control EF)	0.333
			PM25-FR1 - PM2.5 - Primary (Filterable + Condensible)	1.55	E3GAL - 1000 GALLONS	10_3 - OK DEQ Approved Method (no Control EF)	0.224
			SO2 - Sulfur Oxides (SOx) expressed as SO2	0.213	E3GAL - 1000 GALLONS	10_3 - OK DEQ Approved Method (no Control EF)	0.031
			VOC - Volatile Organic Compounds (VOCs)	0.28	E3GAL - 1000 GALLONS	10_3 - OK DEQ Approved Method (no Control EF)	0.041
			Emission Unit ID	Unit Process ID	Throughput	Operations	
42026 Coal Pile	149891 Bulk Materials Open Stockpiles - Coal	Annual Throughput: 31.1 ACRES (Coal) (Input)	Average Hours/Day: 24.0, Days/Week: 7.0, Weeks/Year: 52.0 Actual Hours/Year: 8,760.0 Seasonal Operations: Dec-Feb: 25.0%, Mar-May: 25.0%, Jun-Aug: 25.0%, Sep-Nov: 25.0%				
			Pollutant	Emis. Factor (Lbs/UOM)	Emis. Factor UOM	Calculation Method	Estimated Emis. (Tons)
			PM10-FR1 - PM 10 - Primary (Filterable + Condensible)			8_0 - US EPA Documents incl. AP-42 & WebFIRE (no EF)	11.2219232
			PM25-FR1 - PM2.5 - Primary (Filterable + Condensible)			8_0 - US EPA Documents incl. AP-42 & WebFIRE (no EF)	1.21842426
Emission Unit ID	Unit Process ID	Throughput	Operations				
47367 NO 2 Emergency Generator GM- Detroit Serial NO 73100	156029 Diesel - Large Bore Engine	Annual Throughput: 416.96 GALLONS (Distillate Oil (Diesel)) (Input)	Average Hours/Day: 0.6, Days/Week: 0.7, Weeks/Year: 26.0 Actual Hours/Year: 11.0 Seasonal Operations: Dec-Feb: 30.7%, Mar-May: 15.3%, Jun-Aug: 21.9%, Sep-Nov: 32.1%				
			Pollutant	Emis. Factor (Lbs/UOM)	Emis. Factor UOM	Calculation Method	Estimated Emis. (Tons)
			CO - Carbon Mnoxide	116.45	E3GAL - 1000 GALLONS	8_3 - US EPA Documents incl. AP-42 & WebFIRE (no Control EF)	0.024
			Overall Control Efficiency: 0.0%				
			NOX - Nitrogen Oxides (NOx) expressed as NO2	438.4	E3GAL - 1000 GALLONS	8_3 - US EPA Documents incl. AP-42 & WebFIRE (no Control EF)	0.091
			Overall Control Efficiency: 0.0%				
			PM10-FR1 - PM 10 - Primary (Filterable + Condensible)	7.8501	E3GAL - 1000 GALLONS	8_3 - US EPA Documents incl. AP-42 & WebFIRE (no Control EF)	0.002
			Overall Control Efficiency: 0.0%				
			SO2 - Sulfur Oxides (SOx) expressed as SO2	0.000012135	HP-HR - HORSEPOWER-HOURS	10_3 - OK DEQ Approved Method (no Control EF)	0.0
			VOC - Volatile Organic Compounds (VOCs)	12.33	E3GAL - 1000 GALLONS	8_3 - US EPA Documents incl. AP-42 & WebFIRE (no Control EF)	0.002
Overall Control Efficiency: 0.0%							

Emission Unit ID	Unit Process ID	Throughput	Operations			
47471 Emergency Diesel Fire Pump Cummins VT1710F Serial 44932	156118 Diesel - Large Bore Engine	Annual Throughput: 173.99 GALLONS (Diesel) (Input)	Average Hours/Day: 1.9, Days/Week: 0.1, Weeks/Year: 26.0 Actual Hours/Year: 4.9 Seasonal Operations: Dec-Feb: 10.2%, Mar-May: 8.2%, Jun-Aug: 69.4%, Sep-Nov: 12.2%			
		Pollutant	Emis. Factor (Lbs/UOM)	Emis. Factor UOM	Calculation Method	Estimated Emis. (Tons)
		CO - Carbon Monoxide	116.0	E3GAL - 1000 GALLONS	10_3 - OK DEQ Approved Method (no Control EF)	0.01
		NOX - Nitrogen Oxides (NOx) expressed as NO2	438.0	E3GAL - 1000 GALLONS	10_3 - OK DEQ Approved Method (no Control EF)	0.038
		PM10-FR - PM 10 - Primary (Filterable + Condensible)	7.85	E3GAL - 1000 GALLONS	10_3 - OK DEQ Approved Method (no Control EF)	0.001
		SO2 - Sulfur Oxides (SOx) expressed as SO2	0.000012135	HP-HR - HORSEPOWER-HOURS	10_3 - OK DEQ Approved Method (no Control EF)	0.0
		VOC - Volatile Organic Compounds (VOCs)	11.5	E3GAL - 1000 GALLONS	10_3 - OK DEQ Approved Method (no Control EF)	0.001
Emission Unit ID	Unit Process ID	Throughput	Operations			
50942 Generac Model QT025A	160549 Liquified Petroleum Gas (LPG) - Propane: Reciprocating	Annual Throughput: 113.71 GALLONS (Liquified Petroleum Gas (LPG)) (Input)	Average Hours/Day: 2.1, Days/Week: 0.5, Weeks/Year: 26.0 Actual Hours/Year: 27.4 Seasonal Operations: Dec-Feb: 29.6%, Mar-May: 5.8%, Jun-Aug: 24.5%, Sep-Nov: 40.1%			
		Pollutant	Emis. Factor (Lbs/UOM)	Emis. Factor UOM	Calculation Method	Estimated Emis. (Tons)
		CO - Carbon Monoxide	0.189994152	HP-HR - HORSEPOWER-HOURS	7_0 - Manufacturer Test Data with OK DEQ Approval (no Control EF)	0.112
		NOX - Nitrogen Oxides (NOx) expressed as NO2	0.009656236	HP-HR - HORSEPOWER-HOURS	7_0 - Manufacturer Test Data with OK DEQ Approval (no Control EF)	0.006
		VOC - Volatile Organic Compounds (VOCs)	0.003152607	HP-HR - HORSEPOWER-HOURS	7_0 - Manufacturer Test Data with OK DEQ Approval (no Control EF)	0.002
Emission Unit ID	Unit Process ID	Throughput	Operations			
138766 Activated Carbon Handling Equipment	259565 Bulk Materials Unloading Operation - Chemical: Specify in Comments	Annual Throughput: 343.89576 TONS (Material) (Input)	Average Hours/Day: 1.4, Days/Week: 1.0, Weeks/Year: 26.0 Actual Hours/Year: 36.0 Seasonal Operations: Dec-Feb: 24.7%, Mar-May: 20.6%, Jun-Aug: 26.6%, Sep-Nov: 28.0%			
		Pollutant	Emis. Factor (Lbs/UOM)	Emis. Factor UOM	Calculation Method	Estimated Emis. (Tons)
		PM10-FR - PM 10 - Primary (Filterable + Condensible)			8_0 - US EPA Documents incl. AP-42 & WebFIRE (no EF)	0.002854286
		PM25-FR - PM2.5 - Primary (Filterable + Condensible)			8_0 - US EPA Documents incl. AP-42 & WebFIRE (no EF)	0.002854286
Emission Unit ID	Unit Process ID	Throughput	Operations			
138775 Activated Carbon Handling Road Travel	259604 Bulk Materials Unloading Operation - Chemical: Specify in Comments	Annual Throughput: 96.95454545 MILES (Material) (Input)	Average Hours/Day: 0.5, Days/Week: 0.5, Weeks/Year: 26.0 Actual Hours/Year: 6.5 Seasonal Operations: Dec-Feb: 24.7%, Mar-May: 20.6%, Jun-Aug: 26.6%, Sep-Nov: 28.0%			
		Pollutant	Emis. Factor (Lbs/UOM)	Emis. Factor UOM	Calculation Method	Estimated Emis. (Tons)
		PM10-FR - PM 10 - Primary (Filterable + Condensible)			8_0 - US EPA Documents incl. AP-42 & WebFIRE (no EF)	0.008175712
		PM25-FR - PM2.5 - Primary (Filterable + Condensible)			8_0 - US EPA Documents incl. AP-42 & WebFIRE (no EF)	0.00090257
Emission Unit ID	Unit Process ID	Throughput	Operations			
205940 New Emergency Generator 1 - Caterpillar C15	334361 New Emergency Generator 1 - Caterpillar C15	Annual Throughput: 361.41 GALLONS (Distillate Oil (Diesel)) (Input)	Average Hours/Day: 0.6, Days/Week: 0.6, Weeks/Year: 26.0 Actual Hours/Year: 9.5 Seasonal Operations: Dec-Feb: 10.5%, Mar-May: 21.1%, Jun-Aug: 34.7%, Sep-Nov: 33.7%			

Pollutant	Emis. Factor (Lbs/UOM)	Emis. Factor UOM	Calculation Method	Estimated Emis. (Tons)
CO - Carbon Monoxide	116.45	E3GAL - 1000 GALLONS	8_3 - US EPA Documents incl. AP-42 & WebFIRE (no Control EF)	0.002121777
<b>Overall Control Efficiency:</b> 0.0%				
NOX - Nitrogen Oxides (NOx) expressed as NO2	438.4	E3GAL - 1000 GALLONS	8_3 - US EPA Documents incl. AP-42 & WebFIRE (no Control EF)	0.007987867
<b>Overall Control Efficiency:</b> 0.0%				
PM10-FR - PM10 - Primary (Filterable + Condensable)	7.8501	E3GAL - 1000 GALLONS	8_3 - US EPA Documents incl. AP-42 & WebFIRE (no Control EF)	0.000143033
<b>Overall Control Efficiency:</b> 0.0%				
VOC - Volatile Organic Compounds (VOCs)	12.33	E3GAL - 1000 GALLONS	8_3 - US EPA Documents incl. AP-42 & WebFIRE (no Control EF)	0.000224659
<b>Overall Control Efficiency:</b> 0.0%				